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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: Prime & Bond NT

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Adhesive
- · Uses advised against No further relevant information available.
- $\cdot$  1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: DENTSPLY DeTrey GmbH De-Trey-Str. 1 D-78467 Konstanz GERMANY Tel.: +49-(0)7531-583-0 Fax: +49-(0)7531-583-104 email: KonstanzDEU.info-sdb@dentsplysirona.com

· Further information obtainable from:

- Departement Research & Development for technical information
- Departement Marketing & Sales for distribution of the safety data sheets
- 1.4 Emergency telephone number: +49-(0)7531-583-0 8:00 17:00 (GMT + 1:00)

## **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008Flam. Liq. 2H225 Highly flammable liquid and vapour.Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.STOT SE 3H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

## · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

*The product is classified and labelled according to the CLP regulation.* • *Hazard pictograms* 



· Signal word Danger

Hazard-determining components of labelling: acetone Di(ethylene glycol) dimethacrylate
Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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	(Contd. of page 1)
P303+P361+	-P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+	-P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional in	formation:

As this product is a medical device in the meaning of Directive 93/42/EEC and intended for use by the end consumer and is applied in an invasive manner or body contact, it is exempt from the labelling requirements according to regulation 1272/2008.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
CAS: 67-64-1	acetone	50-100%
EINECS: 200-662-2	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 105883-40-7	Urethane Dimethacrylate Resin	10-25%
	🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 87699-25-0	Dipentaerythritol pentaacrylate phosphate	2.5-<10%
	Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 2358-84-1	Di(ethylene glycol) dimethacrylate	2.5-<10%
	𝔣 Skin Sens. 1, H317	
CAS: 3290-92-4	propylidynetrimethyl trimethacrylate	0.25-<2.5%
	Aquatic Chronic 2, H411	
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	0.25-<2.5%
EINECS: 204-881-4	log Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
· Additional informat	ion For the wording of the listed hazard phrases refer to section 16.	

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · General information Immediately remove any clothing soiled by the product.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Information for doctor No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

- Suitable extinguishing agents
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Self-contained respiratory protective device.

## **SECTION 6:** Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- 6.4 Reference to other sections See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

 7.1 Precautions for safe handling Observe normal care for working with chemicals. Prevent formation of aerosols. Ensure good ventilation/exhaustion at the workplace.

- · Handling Product is intended for dental use only.
- · Information about fire and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- *Requirements to be met by storerooms and receptacles: Store in a cool location.*
- Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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· 8.1	Control	parameters

· Ingredients with limit values that require monitoring at the workplace:

#### CAS: 67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm

Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

· Regulatory information WEL: EH40/2011

 $\cdot DNELs$ 

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Inhalative DNEL Werte 3.5 mg/m<sup>3</sup> bw/day (rat)

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· Personal protective equipment

• General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

#### • Respiratory protection:

Not necessary if room is well-ventilated. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Natural rubber, NR

Recommended thickness of the material:  $\geq 0.75$  mm

*Permeation: Level*  $\geq 2$ 

 $\cdot$  Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles.

· Body protection: Protective work clothing.

## **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form:

Fluid

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	(Contd. of page 4
Colour:	Yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/freezing point: Initial boiling point and boiling range</li> </ul>	undetermined e: 60 °C
· Flash point:	-19 °C (c.c. Abel)
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	465 °C
· Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
· Explosion limits:	
Lower:	2.6 Vol %
Upper:	12.8 Vol %
· Vapour pressure at 20 °C:	233 hPa
· Density at 20 °C:	0.9 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
• Solubility in / Miscibility with Water:	Partly miscible
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content: Organic solvents:	67.0 %
Solids content:	3.0 %
9.2 Other information	No further relevant information available.

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

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	values rele	vant for classification:
CAS: 67-6	4-1 aceton	e
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
CAS: 329	)-92-4 proj	ylidynetrimethyl trimethacrylate
Oral	LD50	>2000 mg/kg (rat)
CAS: 128-	37-0 2,6-d	i-tert-butyl-p-cresol
Oral	LD50	2930 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
	ritant effe	
	osion/irrita	
	n irritation <b>e damage</b> /	
	rious eye ir	
		ensitisation
		ged contact with the not polymerized product may cause sensitization for acryla
methacryle		a abia nagation
•		c skin reaction.
		ogenity, mutagenicity and toxicity for reproduction) ity Based on available data, the classification criteria are not met.
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	gle exposu	
		ss or dizziness.
STOT-rep	eated expo	<i>sure</i> Based on available data, the classification criteria are not met.
Aspiration	hazard Ba	<i>sure</i> Based on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. cological information
Aspiration	hazard Ba N 12: Ec	ased on available data, the classification criteria are not met.
Aspiration SECTIO	hazard <sup>®</sup> Ba <mark>N 12: Ec</mark> ity	ased on available data, the classification criteria are not met.
Aspiration SECTIO 12.1 Toxic Aquatic to	hazard <sup>®</sup> Ba <mark>N 12: Ec</mark> ity	ased on available data, the classification criteria are not met.
Aspiration SECTIO 12.1 Toxic Aquatic to CAS: 67-6	hazard Ba N 12: Ed ity xicity: 4-1 aceton	ased on available data, the classification criteria are not met.
Aspiration SECTIO 12.1 Toxic Aquatic to CAS: 67-6 LC50/96h	2 hazard Ba 2 N 12: Ea 2 Sity 2 Sity: 2 Sity:	ased on available data, the classification criteria are not met. cological information
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Aspiration SECTIO 12.1 Toxic Aquatic to CAS: 67-6 LC50/96h EC50/48h CAS: 3290 LC50/96h EC50/48h	N 12: Ed N 12: Ed Sity xicity: 5540 mg/l 6100 mg/l 0-92-4 prop 2 mg/l (Fi >9.22 mg	ased on available data, the classification criteria are not met. cological information ee (Fish acute toxicity study) L (daphnia magna) pylidynetrimethyl trimethacrylate ish acute toxicity study) /L (daphnia magna)
Aspiration SECTIO 12.1 Toxic Aquatic to CAS: 67-6 LC50/96h EC50/48h CAS: 3296 EC50/48h CAS: 128-	N 12: Ed N 12: Ed ity xicity: 5540 mg/l 5540 mg/l 6100 mg/l 0-92-4 prop 2 mg/l (Fi >9.22 mg 37-0 2,6-d	ased on available data, the classification criteria are not met. cological information e (Fish acute toxicity study) L (daphnia magna) pylidynetrimethyl trimethacrylate ish acute toxicity study) /L (daphnia magna) i-tert-butyl-p-cresol
Aspiration SECTIO 12.1 Toxic Aquatic to CAS: 67-6 LC50/96h EC50/48h CAS: 3290 LC50/96h EC50/48h CAS: 128- LC50/48h	N 12: EC N 1	ased on available data, the classification criteria are not met. cological information re (Fish acute toxicity study) L (daphnia magna) pylidynetrimethyl trimethacrylate ish acute toxicity study) /L (daphnia magna) i-tert-butyl-p-cresol /l (daphnia magna)
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- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European	waste	catalogue
------------	-------	-----------

18 01 06*	chemicals consisting of or containing hazardous substances
HP 3	Flammable
HP 4	Irritant - skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 13	Sensitising
HP 14	Ecotoxic

· Uncleaned packaging:

- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

- 14.1 UN-Number - ADR, IMDG, IATA	UN1090	
· 14.2 UN proper shipping name		
ADR	1090 ACETONE mixture	
· IMDG, IATA	ACETONE, MIXTURE	
· 14.3 Transport hazard class(es)		
ADR		
· Class · Label	3 (F1) Flammable liquids. 3	
IMDG, IATA		
· Class	3 Flammable liquids.	
· Label	3	
· 14.4 Packing group		
ADR, IMDĞ, IATA	II	

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· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
· Stowage Category	E
· 14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
$\cdot$ Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
• Tunnel restriction code	D/E
·IMDG	
$\cdot$ Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 1090 ACETONE MIXTURE, 3, II

# SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

Relevant phrases
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.	
Department issuing SDS: Research & Development	
<b>Contact:</b> HotLine for urgent technical support: +49-7531-583-350	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internat	in
Carriage of Dangerous Goods by Road)	ioni
MDG: International Maritime Code for Dangerous Goods	
ATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
DNEL: Derived No-Effect Level (REACH)	
LC50: Lethal concentration, 50 percent	
D50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
PvB: very Persistent and very Bioaccumulative	
Flam. Liq. 2: Flammable liquids – Category 2	
kin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
kin Sens. 1: Skin sensitisation – Category 1	
TOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
quatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
quatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
<sup>*</sup> Data compared to the previous version altered.	